

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,088	12/02/2005	Kevin Blann	02814.0079	6753
22852	2 7590 09/26/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			LU, C CAIXIA	
			ART UNIT	PAPER NUMBER
			1713	
			DATE MAILED: 09/26/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	4		
- 1	4	L	
- 1	L	7.	,
	4	•	•

	Application No.	Applicant(s)					
Office Action Summers	10/538,088	BLANN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Caixia Lu	1713					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
	action is non-final.						
3) Since this application is in condition for allowan	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E.	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-47 is/are pending in the application.	4) Claim(s) 1-47 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>8 and 20</u> is/are rejected.							
7)⊠ Claim(s) <u>1-47</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers		•					
9) The specification is objected to by the Examiner	· ·						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/8/05.	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te					

Application/Control Number: 10/538,088 Page 2

Art Unit: 1713

DETAILED ACTION

Claim Objections

- 1. Claims 1-47 are objected to because of the following informalities and appropriate correction is required:
- (i) Extraneous descriptions which do not further limit the scope of the claims should be avoided. For example, in <u>claims 1</u>: (a) lines 7-16, the description of the heteroatomic ligand and (b) lines 33-35, the description of "and provided that ... to A or C" do not provide any additional limitations to the claim and should be deleted. The same objection is also applied to claim 47.
- (ii) Claim 4, line 2, the term "claims" should be deleted.
- (iii) Claims 4, 6, and 26 are not further limiting and should be deleted.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 8 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8

Claim 1 requires the substituents on the R¹⁻⁴ groups not to be electron-donating groups; however, claim 8, ultimately depended on claim 1, requires the substituent to be electron donating group, such limitation lacks antecedence.

Application/Control Number: 10/538,088 Page 3

Art Unit: 1713

Claim 20

The term "and" is missing before the last term at the end of the claim.

Allowable Subject Matter

The subject matter of the instant claims is allowable. Prior art such as Sato et al. (JP 07215896A) teaches a process comprising preparation of an ethylene tetramer and copolymerization the tetramer with ethylene to provide a branched linear low density ethylene polymer. However, Sato does not teach or reasonably suggest the catalyst for the preparation of the tetramer to be the cocatalyst of the instant claims. On the other hand, Wass et al. (WO 02/04119) teaches a process for preparation of a branched ethylene polymer by in situ preparation of an ethylene trimer in the presence of phosphorous bidentate ligand containing catalyst and copolymerization of the trimer with ethylene in the presence of a polymerization catalyst to provide the branched ethylene polymer. While Wass' phosphorous bidentate ligand containing catalyst is similar to those of the instant claims, Wass does not teach or reasonably suggest the phosphorous bidentate ligand containing catalyst for tetramerization. Therefore, the instant claims are deemed to novel and nonobvious over the cited prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The

Application/Control Number: 10/538,088

Art Unit: 1713

fax numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner

Page 4